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BULLETINS OF THE U. S. DEPARTMENT OF AGRICULTURE.¹—Bulletin No. 1 contains reports of experiments; chiefly with emulsion of kerosene, upon various insects that injuriously affect the orange tree and cotton plant. These kerosene emulsions appear to be to a great extent successful, both against scale insects and the cotton-worm.

According to Bulletin No. 2, *Caloptenus spretus*, the Rocky Mountain locust, was generally scarce in 1882, so much so that Western farmers have little to fear from it during the present year.

Professor S. A. Forbes has experimented with emulsion of kerosene upon the chinch-bug with good results. He finds that soapsuds (1 lb. soap to 10 galls. water) mixed with an equal quantity of oil, make a good emulsion, so that the addition of milk is not necessary. These fluids accomplish their work as well when poured on with a sprinkler as when applied forcibly in a spray, and kill the adult bugs as easily as the young.

RECENT BOOKS AND PAMPHLETS.

Hayden, F. V., and Setwyn, A. R. C.—Stanford's Compendium of Geography and Travel. North America. Edward Stanford. London, 1883. From Dr. F. V. Hayden.

Dollo, M. L.—Troisième note sur les Dinosauriens de Bernissart. Ext. du Musée Royal d'Histoire Naturelle de Belgique. 1883. From the author.

Lewis, H. C.—The great Ice Age of Pennsylvania. Reprint from Journal Franklin Institute, April, 1883.

—The Geology of Philadelphia. Reprint idem, June, 1883. Both from the author.
International Geological Commission.—Reports of Sub-committees. Permian and Trias, by A. Irving. Miocene and Eocene, by J. S. Gardner. Pliocene and Post-pliocene, by H. B. Woodward. From the commission.

Minot, C. S.—Is Man the highest Animal? Ext. Proc. Amer. Assoc. Advancement of Science, 1881. From the author.

Hughes, T. McKenny.—Memoir E. B. Tawney. Ext. Geol. Magazine, March 1883.

—On the relation of the appearance and duration of the various forms of life upon the earth to the breaks in the continuity of the sedimentary strata. Ext. Proc. Cambridge Philosophical Society. Both from the author.

Putnam, F. W.—Notes on copper implements from Mexico. Ext. Proc. Amer. Antiquarian Society, Oct. 21, 1882. From the author.

Hoffmann, C. K.—Dr. H. G. Bronn's Klassen und Ordnungen des Thier-reichs. Reptilien. Leipzig und Heidelberg, C. F. Winter.

Kansas Academy of Science.—Transactions, Vol. VIII, 1881–82. From F. H. Snow.

Clevenger, S. V.—Plan of the cerebro-spinal nervous system. Ext. from Rep. Boston Meeting of the Amer. Assoc. for the Advancement of Science, Aug., 1880. From the author.

Lemoine, V.—Etude sur le Neoplagiaulax de la faune Eocène inférieure des environs de Rheims. Ext. du Bulletin de la Société Géologique de France, Février 12, 1883. From the author.

Renévier, E.—Unification Géologique. Propositions du Comité Suisse aux Commissions Internationales. Ext. Archives des Sciences Physiques et Naturelles Genève, Mai, 1883. From the author.

¹ U. S. Department of Agriculture. Division of Entomology. Bull. Nos. 1 and 2. C. V. RILEY, entomologist.

Terquem.—Cinquième Mémoire sur les Foraminifères du système Oolithique. From the author.

Guyot, A.—Louis Agassiz. A Biographical Memoir. Read before the National Academy, 1877–78. Princeton, N J., 1883. From the author.

Scott, W. B., and Osborn, H. F.—On the skull of *Orthocynodon*.—

Osborn, H. F.—On *Achænodon*, an Eocene Bunodont.—

Bruce, A. T.—Observations upon the brain casts of Tertiary mammals.—

Scott, W. B.—On *Desmatotherium* and *Dilophodon*, two new Eocene lophiodonts. Contributions from the E. M. Museum of Geology and Archæology of Princeton College, Bulletin No. 3.

Ryder, J. A.—On the mode of fixation of the fry of the Oyster. From the author.

Goode, G. B., and Bean, T. H.—Bulletin of the Museum of Comparative Zoölogy at Harvard College. Reports on the results of dredging, under the supervision of A. Agassiz, on the east coast U. S. XIX. Report on the Fishes. From the authors.

Lydekker, R.—Synopsis of the fossil Vertebrata of India, and Note on the Bijori Labyrinthodonts. Ext. Records Geol. Survey of India, 1883. From the author.

—*Palæontologica Indica*. Series x. Indian Tertiary and Post-tertiary Vertebrata. Vol. II, Pt. 4. Siwalik Camelopardide. Calcutta, 1883. From the author.

Hulke, J. W.—An attempt at a complete osteology of *Hypsilophodon foxii*, a British Wealden Dinosaur. Ext. Philos. Trans. of the Royal Society, Part III, 1882. From the author.

—Address delivered at the anniversary meeting of the Geological Society of London, Feb. 16, 1883. From the author.

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GENERAL NOTES.

GEOGRAPHY AND TRAVELS.¹

AFRICA.—A journey undertaken by F. C. Selous in the Mashuna country, lying between the Matabele settlements and the Zambesi, has resulted in a considerable addition to our knowledge of this region. The great mountain chain of Umvukwe, running north-east to south-west forms the water-shed—all streams rising on its north-western side flow into the Zambesi, while those issuing from its south-eastern flanks must run into the Mazo. A series of high and rugged ridges run in an east and west direction from the western flank of the Umvukwe mountains, and between these ridges flow the Umquasi, Mutiki, Mabane, Umpinge and Dande, all tributaries of a large river flowing northward into the Zambesi, and called the Panyame, Manyame or Hanyane. This river, which on other maps is shown as joining the Zambesi west of the town of Zumbo, is by Mr. Selous stated to enter fifteen miles at least to the east of that place. Between the ridge that bounds the valley of the Dande to the north, and the Zambesi, is a nearly flat and very dry district covered with *mopani* forests. In crossing this dry belt the Panyame and its tributaries as well as the Umsengaisi, which flows into the Zambesi about a degree further to the east, become broad-bedded sand-rivers

¹ This department is edited by W. N. LOCKINGTON, Philadelphia.